Application/Control No. Applicant(s)/Patent under Reexamination Index of Claims 09/821,644 ZOU ET AL. Examiner Art Unit HUY T. NGUYEN 2616 (Through numeral) Cancelled Rejected Non-Elected **Appeal** A N Allowed 0 Restricted Interference Objected

| CI   | aim      | Ļ        | ÷           |    | _         |          | Di       | ate     |          |          |              |          |       |      | Cla         | aim      | Π  |                 |               | - (      | Date  | •                       |           |   |          |               | CI       | aim      | Γ          |          |          | _            | Dat      | e         |  |          | $\neg$          |
|--|----------|----------|-------------|----|-----------|----------|----------|---------|----------|----------|--------------|----------|-------|------|-------------|----------|--|-----------------|---------------|----------|---|-------------------------|-----------|---|----------|---------------|----------|----------|------------|----------|----------|--------------|----------|-----------|--|----------|-----------------|
| 1  | =        | П        | _ \         | d  |           |          |          | - [     |          |          | Т            | Т        | 7     |      |             | _        | Г  | Т               | П             |          | П   |                         |           | П   |          |               |          |          | 1          |          |          | Т            | T        | Ť         | Т  | Г        | $\vdash$        |
| Final  | Original | 3        | N           | 0  |           | l        | Т        | -       |          |          | 1            | 1        |       |      | Final       | Original | 1  |                 |               |          |   |                         | ı         |   |          |               | ਰ        | Original | ١.         |          | İ        | -            | ı        | l         | 1  |          | П               |
| 12   | Ē,       | 3        |             | N  |           | Ì        | Т        | -       |          |          | 1            | 1        |       |      | 댿           | Ē        |  | l               | ĺ             |          |   |                         |           | - 1   |          |               | Final    | Ē        |            |          | ŀ        | 1            |          | 1         |  |          |                 |
| ١.   | 0        | P        | 7           | IJ |           | l        | Т        |         |          |          | 1            | 1        |       |      |             | 0        | }  | 1               |               | l        |   |                         |           |   |          |               | u_       | Ō        |            |          |          | 1            |          |           |  |          | 1 1             |
| F  | 1        | Ł        | 湆           | Ť  |           | ┢        | †        | ╅       | _        | ┢        | ╈            | ╅╴       | ١!    |      |             | 51       | ┝  | ╁               | -             | -        | $\vdash$  | $\dashv$                | -         | $\dashv$  | -        |               |          | l        | <b> </b> - | Ш        | <u> </u> | ├            | ╄        | ⊢         | ╄  | ╙        | ₩               |
|  | 3        | ۲        | Ť           | 7  | _         | ┢        | +        | ╅       | -        | Н        | ╈            | ╁        | ╢     |      |             | 52       | ├  | ╌               | ┝             | $\vdash$ | Н   | -                       |           | -+  | -        |               |          | 101      | <u> </u>   | Н        | <u> </u> | ├-           | ╄        | ╄         | ┺  | _        | ш               |
| -  | 3        | łί       | ҡ           | +  |           | ┢        | ╁        | ╅       | $\dashv$ | ┝        | ╁╌           | ╁        | - ::  |      |             |          | -  | -               | <u> </u>      | $\vdash$ | $\vdash$  | -                       | -         |   | _        |               |          | 102      | Щ          | L        |          | _            | <u> </u> | 丄         | 丄  |          | Ш               |
| 2  | 4        | H        | ╬           | ₹  |           | ┢        | ╁        | ╅       | -        | ┝        | ╁            | ╫        | ╣     |      |             | 53       | ⊢  | ┝               | <del> -</del> |          | Н   |                         | -4        | -   |          |               |          | 103      | Щ          |          |          | ┖            | L        | 丄         | ⊥_   | Ш        | Ш               |
| 1  | 3        | Н        | +           | 4  |           | ├        | ╀        | +       |          | ⊢        | ╀            | ╀        | -1    |      |             | 54       | Ļ.,  | ↓_              | L_            | Щ        | Ш   |                         | _         | _   |          |               |          | 104      |            |          |          |              |          | L         |  |          |                 |
| 1-   |          | Н        | 12          | ₩  | _         | ┝        | ╀        | -       |          | <u> </u> | +            | +-       | 4     |      | · ·         | 55       | ļ.,  | <u> </u>        | <u> </u>      | Щ        | $\sqcup$  | _                       | _         | _   |          |               |          | 105      |            |          |          |              |          |           |  |          | ГΠ              |
| 3<br>4<br>5                                      | 6        | Н        | ч-          |    | _         | _        | ╀        | 4       | 4        | _        | +-           | 4.       | 4     |      |             | 56       | ┖  | <u> </u>        | L             | Щ        | Ш   | _                       |           |   |          |               |          | 106      |            |          |          | Г            | Г        | Г         | П  |          |                 |
| 4  | 7        | ┡        | <u>  </u> : |    |           | ╙        | 4        | 4       | _        |          | ╄-           | 1        | 4     |      |             | 57       | L  | L               | L             |          | Ш   |                         |           | _1  |          |               |          | 107      |            |          |          | П            |          | Г         | П  |          | П               |
| 5  | 8        | Ļ        | Щ           | 1  | _         | <u> </u> | ╀        | ┵       |          | L        | 1            | 上        | ╝     |      |             | 58       |  | L               | ļ             |          |   |                         |           | Т   | П        |               |          | 108      |            |          |          | Г            | Т        | Г         | $\vdash$   | М        | П               |
| 6  | 9        | L        |             | 4  | _         | L        | L        | Д.      |          | L        | L            | _        | ╝     |      |             | 59       |  |                 |               |          | П   | П                       | ヿ         | T   |          |               |          | 109      | П          |          |          | Г            | ┢        | $\vdash$  | ✝  | $\vdash$ | Н               |
| <u> </u>   | 10       | L        | Щ"          | V  |           |          | L        |         |          | L        |              |          | _ ::  |      |             | 60       | Γ  |                 |               |          | $\Box$  |                         | ヿ         |   | $\neg$   |               |          | 110      | П          |          |          | t            | 1        | ✝         | ┢  | $\vdash$ | М               |
| L  | 1K       |          | 亾           | L  |           |          | Г        | T       |          |          | Г            | Т        | ٦     |      |             | 61       | Π  | Γ               |               |          |   | 寸                       | 寸         | 7   | $\neg$   |               |          | 111      | Н          | $\vdash$ | _        | ┢            | ╆        | ┢╾        | ╁╌   | H        | Н               |
| 7  | 12       | Γ        | 2           | 7] |           |          | Г        | Т       | $\neg$   |          | Т            | Τ        | 7     | ı    |             | 62       | Т  | 1               |               | П        | $\sqcap$  | 7                       | 一         | $\dashv$  | $\dashv$ | ⊪∤            |          | 112      | Н          | Н        |          | <del> </del> | ┼-       | ⊢         | +  | $\vdash$ | $\vdash \vdash$ |
| 8  | 13       | 7        | . 7         | _  |           | Т        | T        | $\top$  |          |          | T            | T        | ٦.    | ıŀ   |             | 63       | Ι-   | Н               | _             | М        | $\dashv$  | -                       | ┪         | +   | ᅱ        |               | <u> </u> | 113      | Н          | ┝╌┥      | —        | $\vdash$     | ┼—       |           | ├-   | $\vdash$ | Н               |
| 9  | 14       | ν        |             | ΠŤ | _         |          | 1        | 十       | ┪        | _        | 1            | T        | ٦.    | ď    |             | 64       | <u> </u>   | $\vdash$        | <del></del>   | Н        | $\dashv$  | -                       | +         | ┥   | ᅱ        | ::::          |          | 114      | Н          | $\vdash$ | _        | $\vdash$     | ├—       | ├         | ₩  | Н        | Щ               |
| 70   | 15       | Ť        | 77          | +  | $\neg$    | -        | t        | $\top$  | ┪        | _        | 1-           | $^{+}$   | ٦.    | ii)  | $\dashv$    | 65       | ┢  |                 | Ι             | $\vdash$ | $\dashv$  | $\dashv$                | -         | $\dashv$  | ᅴ        |               |          |          |            | Н        |          | ├-           | ⊢        | $\vdash$  | ⊢  | $\vdash$ | $\sqcup$        |
| 111  | 16       | Т        | 1           |    | _         | -        | t        | +       | ┪        | _        | ╈            | +        | -[::  | :::} |             | 66       | <del>                                     </del> | $\vdash$        | -             | $\vdash$ | $\dashv$  | -                       | +         | -   | {        |               |          | 115      | $\vdash$   | -        |          | $\vdash$     | ⊢        | ├         | ┯  | _        | Ц               |
| #  | 17       | Н        | +=          | +  | $\exists$ | _        | ╁        | +       | ┪        | -        | ╁            | ╁        | 4     | ŀ    |             | 67       | ├  | $\vdash$        | -             | -        | $\dashv$  |                         | -         | $\dashv$  | -        |               |          | 116      | Ш          | <b> </b> |          | _            | ⊢        | ╙         | $\vdash$   | Ш        | Ш               |
|  | 18       | Н        | +           | ╅  | ᅱ         | _        | ╁        | ╅       | ┥        |          | ╁            | ╁        | -     | ijŀ  |             |          | ⊢  | Н               | _             | $\vdash$ | $\dashv$  |                         | -4        |   | 4        | I             |          | 117      |            | $\sqcup$ |          | L.           | L        | _         | ot   | Ш        | Ш               |
| }  | 19       | ┝        | ╁           | +  | -         | _        | ╀        | ╁       | ┪        |          | ╁            | ╁        | -     |      |             | 68       | _  | Н               | _             | -        |   | 4                       | -         | 4   | _        |               |          | 118      |            | Ш        |          |              | L        | L         |  |          | Ш               |
| <b> </b>   |          | ┝        | ┿           | ┿  |           | _        | ╀        | +       |          |          | ╄            | ╀        | -     | ŀ    |             | 69       | ļ  | Ш               | _             |          | _   | _                       | _         |   | _        |               |          | 119      |            |          |          |              |          |           |  |          | $\Box$          |
|  | 20       | <u> </u> | ┿           | +  | 4         | _        | ╀        | +       | 4        | _        | ╄            | ╄-       | 4     | ١.   |             | 70       | L.   | Щ               |               | $\Box$   | _   | _                       | $\perp$   |   | ╝        |               |          | 120      |            |          |          | Γ            |          |           |  |          | П               |
| ļ  | 21       | L        | +           | +  | 4         | _        | ↓_       | 4       | 4        |          | ┺            | 1        | ╝     |      |             | 71       |  | $\sqcup$        |               |          |   |                         |           |   |          |               |          | 121      |            | $\Box$   |          |              | $\Box$   |           | П  |          | П               |
| <u> </u>   | 22       | _        | 4-          | 4  | ᆚ         |          | ╄        | 1       | _        |          | L            | 1        | _     | ı,   |             | 72       |  |                 |               |          |   |                         |           |   | 7        |               |          | 122      |            | ヿ        |          |              | Г        |           | П  |          | П               |
| <b>—</b>   | 23       | L        | ┸           | 4  | ᆜ         |          | L        | 1       | ┙        |          | L            | L        |       | ::L  |             | 73       |  |                 |               |          | П   | П                       | T         |   | $\neg$   |               |          | 123      |            | $\neg$   | _        |              | ┌        |           | М  |          | М               |
|  | 24       |          | ┸           | 1  | _         |          |          | Ŀ       |          |          | L            |          |       | ::[  |             | 74       |  |                 |               |          | $\neg$  | _                       | 寸         | _   |          |               |          | 124      |            | ┪        |          | $\vdash$     | М        | _         | <del>                                     </del> | Н        | Н               |
| L  | 25       | L        | L           | Ι  |           |          |          | Т       | П        |          | П            | Т        | 7.    | ii [ |             | 75       |  |                 |               |          | _   | _                       | $\dashv$  | 7   | $\neg$   | -             |          | 125      | $\dashv$   | -        | _        | $\vdash$     | ┝        | Н         | $\vdash$   | -        | $\dashv$        |
|  | 26       |          | Ţ           | Т  | T         |          | Г        | Т       | ٦        |          | T            | Т        | 7     | ij   |             | 76       | Г  | Н               |               |          | $\dashv$  | _                       | +         | ╅   | $\dashv$ | ŀ             |          | 126      | $\dashv$   | -        | _        | -            | -        | <u> </u>  | Н  | $\vdash$ | Н               |
|  | 27       |          | Т           | Т  | ٦         |          | T        | 1       | ╗        | _        | 1            | T        | ٦     | iit  | $\neg \neg$ | 77       |  | Н               |               | -        | $\dashv$  | -+                      | $\dashv$  | ╅   | $\dashv$ |               |          | 127      | $\dashv$   | -        |          | Н            |          | $\vdash$  | H  |          | $\vdash$        |
|  | 28       |          | Т           | T  | ┪         |          | 1        | 十       | 7        | _        | 1            | +        | 1     | ŀ    |             | 78       | _  | Н               | -             | ┪        | $\dashv$  | ┰                       | -+        | +   | -1       | }             |          | 127      |            | -        |          | L            | $\vdash$ | ш         | Ш  | $\vdash$ | Н               |
|  | 29       | _        | 1           | 7  | ┪         |          | T        | 十       | 7        | _        | ✝            | ✝        | ١.    | ŀ    | -           | 79       |  | Н               | -             | -+       | -+  | -+                      | $\dashv$  | +   |          |               |          | 128      |            |          | _        |              | $\vdash$ |           | $\vdash$   | $\vdash$ | Н               |
|  | 30       | $\vdash$ | +           | ╈  | ┪         | _        | ┢        | ╈       | ┪        |          | t            | +-       | ┨║    | ŀ    |             | 80       | Н  | Н               | -             | -        | ↤   | +                       | +         | +   | -        |               |          | 129      |            | _        | _        |              | L        |           | Щ  | Щ        | $\square$       |
|  | 31       |          | +-          | +  | ┪         |          | ┢        | +       | +        | -        | ╁╴           | ╁        | ┨Ш    | ⊪    | $\dashv$    |          | -  | $\dashv$        | -             | -        | $\dashv$  | +                       | -+        | +   | -4       |               | -        | 130      | _          | _        | _        |              | Ш        |           | Ш  | Ш        | Ш               |
|  | 32       |          | ╁╴          | 十  | ┪         |          | +        | +       | +        | _        | ╁            | ╁        | -{    | ⊪    | $\dashv$    | 81       | Н  | ┝╼┩             | $\dashv$      |          | <b>-</b>  | 4                       | 4         | 4   | 4        |               |          | 131      | _          | _↓       |          |              | Ш        | L         |  |          |                 |
|  | 33       |          | +           | +  | ┪         |          | ╁╴       | ╁       | +        |          | ⊢            | ╁        | ┨║    | ii - |             | 82       |  | ⊢┩              |               |          | $\dashv$  | 4                       | -         | -   | 4        | Ļ             |          | 132      | _          |          |          |              | $\sqcup$ | Ш         |  |          |                 |
| $\vdash$   | 34       | _        | ╁           | +  | ┥         |          | ┢        | +       | +        |          | ╀╌           | ╀        | ╢     | ij-  |             | 83       | Щ  | $\vdash \vdash$ | _             | -        | _   | 4                       | 4         | 4   | 4        | iii L         |          | 133      |            | ┙        | ]        |              |          | $\square$ |  | T        |                 |
| $\vdash$   | 35       | _        | +-          | ┿  | 4         |          | $\vdash$ | +       | +        | _        | ⊢            | ╀        | -     | ŀ    | -           | 84       | _  | $\vdash$        | _             | _        | 4   | _                       | 4         |   | _        | $\parallel L$ |          | 134      |            |          |          |              |          |           |  | ▔        | $\Box$          |
| $\vdash$   | 36       | _        | ╁           | ╀  | +         |          | ⊬        | ╀       | +        |          | ├            | ⊢        | -     | ⊪    | $\dashv$    | 85       | $\Box$   | $\Box$          | _             | _        |   | $\perp$                 | 4         | $\bot$  | _        |               | ]        | 135      | I          | $\Box$   |          |              |          |           |  | П        | $\neg$          |
| $\vdash$   |          | _        | ╀           | +  | 4         |          | ⊢        | +       | 4        | •        | <b>!</b>     | L        | 4     | L    |             | 86       |  |                 |               |          | $\sqcup$  |                         |           | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          | <b></b> [     |          | 136      |            | $\neg$   | $\neg$   |              | П        |           | П  | $\neg$   | $\neg$          |
| $\vdash$   | 37       | _        | ╀-          | +  | 4         |          | L        | +       | 4        | _        | ┖            | ┞        | ╝     | L    | l           | 87       |  |                 | [             | $\Box$   | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oldsymbol{\mathbb{J}}$ | $_{ m J}$ | _T  |          | <b></b> [     |          | 137      |            | $\neg$   |          |              | П        | $\Box$    | $\sqcap$   | $\dashv$ | $\dashv$        |
| $\vdash \vdash$                                  | 38       |          | 1           | 1  | 4         |          | L        | ╀       | ┵        |          | <b>└</b>     | L        | ╝     | Ľ    |             | 88       |  |                 | ┚             | $\Box$   | T   |                         | $\top$    | 1   | ٦        | <u> </u>      |          | 138      | 7          | 7        | $\neg$   |              |          | $\neg$    | $\vdash$   | $\dashv$ | $\dashv$        |
| $\vdash \vdash$                                  | 39       | _        | <b>L</b>    | 1  | 4         |          | 乚        | $\perp$ | $\perp$  | _        | L            | L        | ا∷ا   | L    |             | 89       |  | П               | T             | Т        | T   | T                       | T         | 7   | 7        | 1             | 一        | 139      | 寸          | -+       | 一        | _            | $\neg$   |           | $\sqcap$   | $\dashv$ | $\dashv$        |
| $\perp$  | 40       | _        | L           | L  | $\Box$    |          | Ĺ        | Γ       | $\prod$  |          |              | Γ        | ]:::  | ŧГ   |             | 90       | $\neg$   | $\neg$          |               | ┪        | $\top$  | 十                       | 7         | 十   | ٦        | <b>#</b>      |          | 140      | 7          | +        | $\dashv$ |              | $\dashv$ | $\dashv$  | $\vdash$   | $\dashv$ | $\dashv$        |
|  | 41       | _        | L           | L  |           |          | Ĺ        | Ι       | J        |          |              | Γ        | 1     | Γ    | T           | 91       | コ  | $\neg$          | ┪             | _        | 十   | 十                       | 十         | +   | 7        | <b> </b>      |          | 141      | $\dashv$   | +        |          | -            | $\dashv$ | $\dashv$  |  | -+       | $\dashv$        |
|  | 42       |          | Γ           | Γ  | T         |          |          | Τ       | T        |          |              | Г        |       | Γ    |             | 92       | $\dashv$   | $\dashv$        | 寸             | $\dashv$ | +   | +                       | 十         | +   | ٦        | ⊪⊦            |          | 446      | +          | +        | ┥        |              | $\dashv$ |           |  | -+       | $\dashv$        |
|  | 43       |          | Γ           | Γ  | T         |          |          | Т       | T        |          | Г            | Г        | 1     | ŀ    | $\neg +$    | 93       | 7  | -               | 7             | +        | +   | +                       | ┰         | +   | -        | ⊪⊦            | -        | 143      | $\dashv$   | $\dashv$ | ┥        |              |          | $\dashv$  | $\dashv$   | $\dashv$ | $\dashv$        |
|  | 44       |          | Г           | T  | 7         |          |          | †       | 7        | T        | $\vdash$     | Г        | 1     | 卜    |             | 94       | $\dashv$   | $\dashv$        | -             | ┰        | +   | ╅                       | +         | +   | -        | ⊪             |          |          |            | +        | -        | -            |          | _         | Щ  |          |                 |
|  | 45       |          | 1           | T  | 7         | ٦        | Т        | T       | 十        | $\dashv$ | $\vdash$     | 1        | 1     | ┢    |             | 95       | $\dashv$   | +               | $\dashv$      | $\dashv$ | $\dashv$  | +                       | +         | +   | -        | ⊪             |          | 144      | +          |          | 4        |              | _        | _         | 4  | 4        | $\dashv$        |
|  | 46       |          | T           | T  | +         | _        | Ι-       | ✝       | +        | -        | H            | $\vdash$ | 1     | ۲    |             | 96       | $\dashv$   | -+              |               | +        | +   | -                       | +         | +   | $\dashv$ | ⊪⊦            |          | 145      | 4          | 4        | _        | _            | ᆚ        | ᆚ         | ᆜ  |          | _               |
| $\vdash$   | .47      | _        | $\vdash$    | t  | +         | ᅱ        | $\vdash$ | ╈       | ╁        | $\dashv$ | $\vdash$     | -        | ╢     | 1    |             |          | $\dashv$   | -+              | -+            | $\dashv$ | +   | 4                       |           | +   | 4        | -             |          | 146      | _          | 4        | _        |              |          | ┙         |  | [        |                 |
| <del>                                     </del> | 48       | _        | ╁           | ۲  | +         | -        | -        | ╁       | +        | -        | <del> </del> | -        | ł     | H    |             | 97       |  | 4               | -             | 4        | 4   | 4                       | ┵         | 4   | _        | iiL           | _        | 147      | $\bot$     |          |          | $_{\perp}$   | $\Box$   | $\Box$    |  |          |                 |
| $\vdash$   | 49       | _        | -           | ╀  | +         |          | -        | ┼-      | +        | _        | <u> </u>     | -        | ┨║    | H    |             | 98       | }  | 4               | _             | 4        | 4   | ᆚ                       | ᆚ         | $\perp$   | _        | L             |          | 148      | [          |          | [        |              | $\Box$   |           |  | T        | $\Box$          |
| $\vdash$   |          | _        | -           | ╀  | +         | 4        |          | +-      | +        | -        |              | Ŀ        | ₩     | L    |             | 99       | _  | 4               | 4             | _        | $\perp$   | $\perp$                 |           |   |          | ::L           | $\Box$   | 149      | _T         | $_{T}$   |          |              | $\neg$   | $\neg$    | $\neg$   | 寸        | $\neg$          |
| لــــا   | 50       |          |             | L_ | 1         |          |          | 1       | J.       |          | L_           | Ц_       | Jiiii | ١L   |             | 100      | ╝  |                 |               |          |   | Γ                       | Т         |   |          | [             |          | 150      | T          | T        | ┪        |              | ╗        | ┪         | 7  | ヿ        | $\neg$          |